



AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005

4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-10-18-01 Date: 21-10-2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 18-10-2018
Sample ID No : 2018-10-18-01 /01
Sample Type : Birla Super 53grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1, 2, 3, 4, 5, 6, 11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, DETERMINATION OF DENSITY , Clause 6
Date of test : 19-10-2018
Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.44	—
2	Fineness by Air permeability method (m ² /kg, Min)	275.6	225m ² /kg, Min
3	Density (gm/cc)	3.13	—
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Certificate No.: TC- 5548

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2018-10-18-01 **Date:** 16-11-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-2018

Sample ID No : 2018-10-18-01 /01

Sample Type : Birla Super 53 grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6

Date of test : 19-10-2018

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength			
Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm ²	Not less than 27 N/mm ²
2	7 Days	39.0N/mm ²	Not less than 37 N/mm ²

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-10-18-01 **Date:** 21-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample condition : Satisfactory

Date of Receipt : 18-10-2018

Sample ID No : 2018-10-18-01 /02(a)

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 18-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-10-18-01 Date: 21-10-2018
Sample ID No : 2018-10-18-01 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	—
4	Bulk Density(Loose) (Kg/l)	1.45	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.22	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-10-18-01 **Date:** 20-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-2018

Sample ID No : 2018-10-18-01 /02(b)

Sample Type/ Size : 20mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2011
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 18-10-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2018-10-18-01

Date: 20-10-2018

Sample ID No : 2018-10-18-01 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.6	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.1	
3	Specific Gravity	2.66	—
4	Bulk Density(Loose) (Kg/l)	1.46	—
5	Bulk Density(Compacted) (Kg/l)	1.49	—
6	Water Absorption(%)	0.25	—
7	Aggregate crushing Value(%)	22.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-10-18-01 **Date:** 20-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-2018

Sample ID No : 2018-10-18-01 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 : 1963 (Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption

Date of test : 18-10-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	165	247	24.7	75.3	60-95	75-100	85-100	95-100
4	1.18 mm	177	424	42.4	57.6	30-70	55-90	75-100	90-100
5	600 micron	182	606	60.6	39.4	15-34	35-59	60-79	80-100
6	300 micron	177	783	78.3	21.7	5-20	8-30	12-40	15-50
7	150 micron	134	917	91.7	8.3	0-10	0-10	0-10	0-15
8	Pan	83	1000	100.0	0.0	---	---	---	---

Result : The tested Sample Conforms to Grading Zone II

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Certificate No.: TC- 5548

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-10-18-01

Date: 20-10-2018

Sample ID No : 2018-10-18-01 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	—
2	Specific Gravity	2.58	—
3	Material finer than 75 micron(%)	4.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID : CP-2018-10-18-01 Date: 22-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-2018

Sample ID No : 2018-10-18-01 /07

Sample Type/Size : Solid concrete blocks size (400X200X200)mm

Reference to BIS codes : IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification
Part 1: Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and 10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)

Date of test : 19-10-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10 ⁶	Avg. Block Density in (Kg/cum)	As per IS 2185(Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm ³)	Kg	Kg/m ³	Kg/m ³	
1	402	202	203	16484	34.850	2114.1	2122.6	Not less than 1800Kg/m ³
2	401	201	201	16201	34.790	2147.4		
3	402	202	202	16403	34.550	2106.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg. Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	35.810	34.100	5.01	5.00	Shall not be more than 10% by mass
2	35.920	34.250	4.88		
3	35.790	34.050	5.11		

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Lab ID : CP-2018-10-18-01
Sample ID No : 2018-10-18-01 /07

Date: 22-10-2018

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	203	203	Length : $\pm 5\text{mm}$ Breadth : $\pm 3\text{mm}$ Height : $\pm 3\text{mm}$
2	401	201	201	
3	402	203	203	
4	401	201	201	
5	402	201	203	
6	401	203	201	
7	403	200	203	
8	401	201	201	
9	402	203	203	
10	403	201	201	
11	402	203	203	
12	401	201	201	
13	402	203	203	
14	403	202	201	
15	401	201	203	
16	402	203	201	
17	401	201	203	
18	403	200	202	
19	402	203	201	
20	401	201	203	
Average of 20	402	202	202	

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20.10.2018, Bangalore-14

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Bangalore

Lab ID : CP-2018-10-18-01

Date: 22-10-2018

Sample ID No : 2018-10-18-01 /07

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm ²)	(KN)	N/mm ²	(N/mm ²)
1	402	203	81606	355.7	4.4	4.5
2	401	201	80601	363.8	4.5	
3	402	203	81606	372.4	4.6	
4	401	201	80601	349.7	4.3	
5	402	201	80802	375.7	4.6	
6	401	203	81403	359.7	4.4	
7	403	200	80600	379.4	4.7	
8	401	201	80601	344.8	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm ²	4.00 N/mm ²
C (4.0)	4.00 N/mm ²	3.20 N/mm ²

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-24-01 **Date:** 29/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-10-2018

Sample ID No : 2018-10-24-01 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	22/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.312	389.5	17.2	17.2
2	Drain Concrete	M20	22/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	22/10/2018	29/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-24-01 Date: 19/11/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-10-18

Sample ID No : 2018-10-24-01 /01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	22/10/2018	19/11/2018	150.52 X 150.54 X 150.45	22659	8.312	541.6	23.9	23.4
2	Drain Concrete	M20	22/10/2018	19/11/2018	150.42 X 150.44 X 150.45	22629	8.331	511.4	22.6	
3	Drain Concrete	M20	22/10/2018	19/11/2018	150.42 X 150.54 X 150.45	22644	8.345	534.4	23.6	

Note:

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[Handwritten signature]
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-24-01 **Date:** 29/10/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-10-2018
Sample ID No : 2018-10-24-01 /02
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	22/10/2018	29/10/2018	149.85 X 150.18 X 150.45	22504	8.214	366.8	16.3	16.7
2	Drain Concrete	M20	22/10/2018	29/10/2018	149.87 X 150.33 X 151.98	22530	8.168	385.3	17.1	
3	Drain Concrete	M20	22/10/2018	29/10/2018	150.97 X 150.58 X 149.68	22733	8.172	381.9	16.8	

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Handwritten signature and date 29.10.2018
Stamp: 29.10.2018, Bangalore-24

Page 1/1
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Handwritten signature
R KARTHIK RECHAN
Authorized Signatory
Quality Manager
Stamp: CIVIL PRO BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-24-01 **Date:** 19/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-10-18
Sample ID No : 2018-10-24-01 /02
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	22/10/2018	19/11/2018	150.52 X 150.54 X 150.45	22659	8.312	541.6	23.9	23.4
2	Drain Concrete	M20	22/10/2018	19/11/2018	150.42 X 150.44 X 150.45	22629	8.331	515.9	22.8	
3	Drain Concrete	M20	22/10/2018	19/11/2018	150.42 X 150.54 X 150.45	22644	8.345	534.4	23.6	

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 Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-24-01 **Date:** 29/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 24-10-2018

Sample ID No : 2018-10-24-01 /03

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	22/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.312	403.1	17.8	17.7
2	Drain Concrete	M20	22/10/2018	29/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	Drain Concrete	M20	22/10/2018	29/10/2018	150.32 X 150.54 X 150.35	22629	8.345	402.8	17.8	

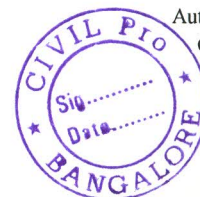
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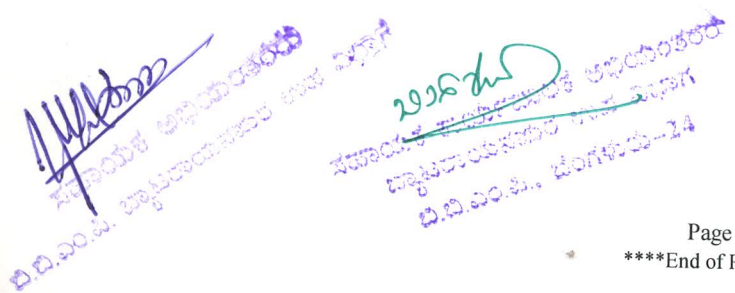
TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-24-01
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 24-10-18
Sample ID No : 2018-10-24-01 /03
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 19/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	22/10/2018	19/11/2018	150.52 X 150.54 X 150.45	22659	8.312	534.8	23.6	23.3
2	Drain Concrete	M20	22/10/2018	19/11/2018	150.42 X 150.44 X 150.45	22629	8.331	518.2	22.9	
3	Drain Concrete	M20	22/10/2018	19/11/2018	150.42 X 150.54 X 150.45	22644	8.345	529.9	23.4	

Note:

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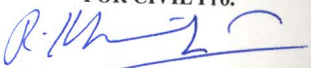


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Certificate No.: TC- 5548

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 30/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-10-25-03 /01

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	398.5	17.6	17.6
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	403.1	17.8	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	393.7	17.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

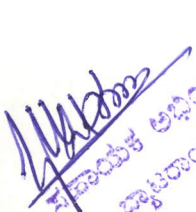
Lab ID : CP-2018-10-25-03 **Date:** 20/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-10-18
Sample ID No : 2018-10-25-03 /01
Customer ID : CC Road(M20 RMC)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.32 X 150.36 X 150.42	22602	8.312	540.2	23.9	23.3
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.54 X 150.36 X 150.46	22635	8.331	518.3	22.9	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.43 X 150.23 X 150.33	22599	8.345	522.0	23.1	

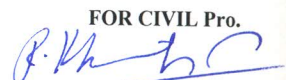
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 Authorized Signatory
 Quality Manager


 R. Karthik Rechan
 Authorized Signatory
 Quality Manager



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Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 30/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-10-25-03 /02

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	403.1	17.8	17.5
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	385.0	17.0	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	398.3	17.6	

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Lab ID : CP-2018-10-25-03 **Date:** 20/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
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Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-10-18
Sample ID No : 2018-10-25-03 /02
Customer ID : CC Road(M20 RMC)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.33 X 150.23 X 150.43	22584	8.312	521.7	23.1	23.2
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.42 X 150.43 X 150.36	22628	8.331	515.9	22.8	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.34 X 150.01 X 150.33	22553	8.345	532.2	23.6	

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Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-10-25-03 /03

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	398.5	17.6	17.3
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	394.0	17.4	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	384.7	17.0	

Note:

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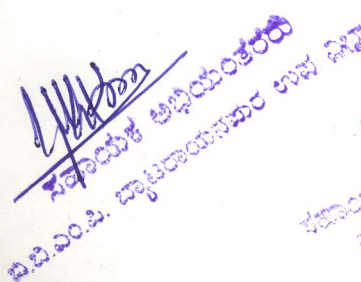
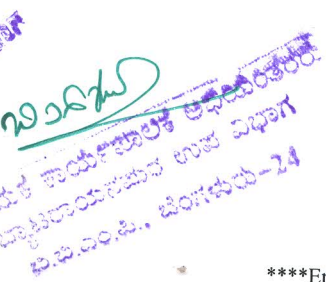
Lab ID : CP-2018-10-25-03 **Date:** 20/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-10-18
Sample ID No : 2018-10-25-03 /03
Customer ID : CC Road(M20 RMC)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.42 X 150.36 X 150.42	22617	8.312	538.3	23.8	23.3
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.54 X 150.46 X 150.46	22650	8.331	518.7	22.9	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.43 X 150.23 X 150.53	22599	8.345	522.0	23.1	

Note:

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 Samples will be disposed after 90 days from the date of issue of test certificate

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 Date: 30/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-10-25-03 /04

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	394.0	17.4	17.3
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	380.2	16.8	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 20/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-10-18
Sample ID No : 2018-10-25-03 /04
Customer ID : CC Road(M20 RMC)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.36 X 150.34 X 150.42	22605	8.312	540.3	23.9	23.3
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.36 X 150.36 X 150.46	22608	8.331	517.7	22.9	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.43 X 150.34 X 150.33	22616	8.345	522.4	23.1	

Note:

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 30/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-10-25-03 /05

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	403.1	17.8	17.3
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	375.9	16.6	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	398.3	17.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 20/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-10-18
Sample ID No : 2018-10-25-03 /05
Customer ID : CC Road(M20 RMC)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.36 X 150.34 X 150.34	22605	8.312	538.0	23.8	23.2
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.42 X 150.24 X 150.24	22599	8.331	506.2	22.4	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.36 X 150.23 X 150.33	22589	8.345	530.8	23.5	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 Date: 30/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-10-25-03 /06

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	380.4	16.8	17.3
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	398.5	17.6	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	398.3	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 20/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-10-18
Sample ID No : 2018-10-25-03 /06
Customer ID : CC Road(M20 RMC)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.32 X 150.36 X 150.42	22602	8.312	537.9	23.8	23.2
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.54 X 150.36 X 150.46	22635	8.331	509.3	22.5	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.43 X 150.23 X 150.33	22599	8.345	524.3	23.2	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 30/10/2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-10-2018

Sample ID No : 2018-10-25-03 /07

Customer ID : CC Road(M20 RMC)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/10/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm ²)	(N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.312	398.5	17.6	17.5
2	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.42 X 150.54 X 150.45	22644	8.331	394.0	17.4	
3	CC Road(M20 RMC)	M20	23/10/2018	30/10/2018	150.32 X 150.54 X 150.35	22629	8.345	398.3	17.6	

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Handwritten signature and date 20/10/2018

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-10-25-03 **Date:** 20/11/2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer's Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 25-10-18
Sample ID No : 2018-10-25-03 /07
Customer ID : CC Road(M20 RMC)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 20/11/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.33 X 150.42 X 150.46	22613	8.312	533.7	23.6	23.3
2	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.31 X 150.23 X 150.34	22581	8.331	512.6	22.7	
3	CC Road(M20 RMC)	M20	23/10/2018	20/11/2018	150.36 X 150.23 X 150.33	22589	8.345	530.8	23.5	

Note:

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 20.11.2018
 20.11.2018

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-10-18-01 Date: 23-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-2018

Sample ID No : 2018-10-18-01 /06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 19/10/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	Cover Slab-1	75.51	100.49	1.387	4477	89.7	20.0	18.6	23.3
2	Cover Slab-2	75.49	100.53	1.366	4475	84.6	18.9	17.6	22.0
3	Cover Slab-3	75.44	100.48	1.359	4469	87.3	19.5	18.2	22.7

Note:

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All information furnished by the Customer/Representative

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2018-10-19-01 **Date:** 21-10-2018
Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address : Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.
Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.
Customer Reference : BBMP/EE/BTP/WO/143/2018-19
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 19-10-2018
Sample ID No : 2018-10-19-01/01
Type of Mix : WMM (Wet Mix Macadam)
Date of test : 19-10-2018
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

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All information Furnished by Customer/ Representative
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Handwritten signature and stamp

Handwritten date: 20/10/18

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End of Report



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Handwritten signature
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Authorized Signatory
Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

TEST REPORT OF AGGREGATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2018-10-19-01 Date: 21-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-10-2018

Sample ID No : 2018-10-19-01/01

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 19-10-2018

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.9
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

Note:-

The results pertain to the samples received and tested.
 All information Furnished by Customer/ Representative
 Any correction in the report will make this report invalid.
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 Samples will be disposed after 90 days from the date of issue of test certificate

Handwritten signatures and stamps in Kannada script.

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End of Report

FOR CIVIL Pro.
 R KARTHIK RECHAN
 Authorized Signatory
 Quality Manager

Handwritten signature of R. Karthik Rechan

CIVIL PRO BANGALORE stamp with signature and date fields.

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC- 5548

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2018-10-19-01 Date: 21-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-10-2018

Sample ID No : 2018-10-19-01/01

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 19-10-2018

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

Note:-

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Format No: CP/TF/01

TEST RESULTS OF STEEL

Lab ID : CP-2018-10-18-01 **Date:** 19-10-2018

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Roads, Drains and removing resetting and converging slabs at
Ambedakarnagara and Kattigenahalli colony in Ward No.05 Byatarayanapura Sub
Division.

Agency : Executive Engineer, Karnataka rural infrastructure development Ltd, #280, 59th
cross road, 17th C Main Road, 3rd Y Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/143/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-10-2018

Sample ID No : 2018-10-18-01 /04

Sample Type : Sunvik

Reference to BIS codes : IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.

Date of test: : 18-10-2018

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm ²)	(N/mm ²)	(%)		
1	Sunvik	Fe500	8	0.394	514	654	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.618	526	676	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.886	542	664	20.0%	Satisfactory	Satisfactory

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Samples will be disposed after 90 days from the date of issue of test certificate

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